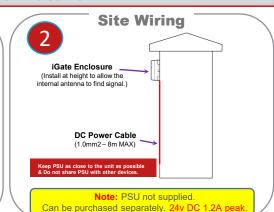
106-885 iGate Prime 4G

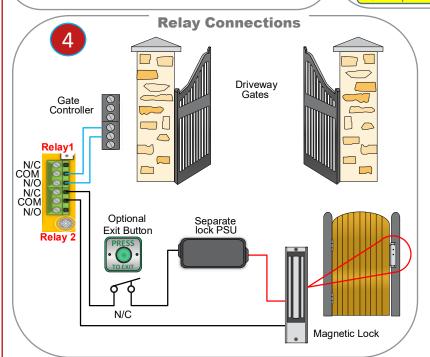
#### \* ALWAYS TEST THE UNIT ON SITE BEFORE INSTALLATION TO AVOID RE-STOCKING FEE

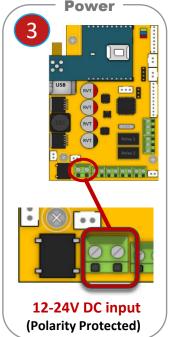
### **SIM Preparation**

A Nano sized active SIM card is required (not included).

This product requires a regular voice and SMS SIM card, a data-only SIM will not work.









See overleaf for more PCB details

Turn Over



#### **SITE SURVEY**



Please read this entire manual before installing this product. A full comprehensive manual is available on our website for additional information.



Ensure there is good 4G signal on site. 4G units will fall back to 3G service in some countries.



Set up on a bench in workshop **BEFORE** going to site. Program the unit in the comfort of your work bench and call technical support should you have any questions.



This product requires a regular voice & SMS SIM card.

Do not use a data only SIM, as this will not work in the unit.

#### **POWER CABLE**

KEEP POWER SUPPLY AS CLOSE AS POSSIBLE.

**TIP**: Most technical calls received are due to installers using CAT5 or alarm cable to power the unit.

**NEITHER** are rated to carry enough power! (1.2amp peak)

#### Please use the following cable:

Up to 2 metres (6 feet) — Use minimum 0.5mm² (18 gauge)
Up to 4 metres (12 feet) — Use minimum 0.75mm² (16 gauge)
Up to 8 metres (24 feet) — Use minimum 1.0mm² (14 gauge)

Power
Consumption:
Standby = 80mA
Peak = 1.2A

### **INGRESS PROTECTION**



We recommend sealing all entry holes for prevention of insects that can cause issues with a risk of shorting out components.



To maintain the IP55 rating please follow the sealing instructions included. (also available online)

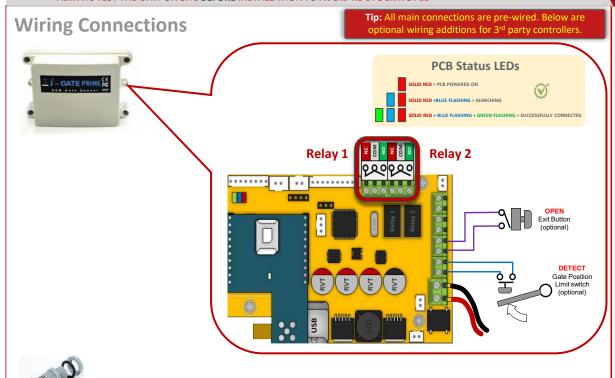
## iGate Prime 4G

- Advanced GSM Switch



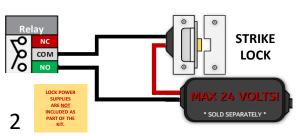
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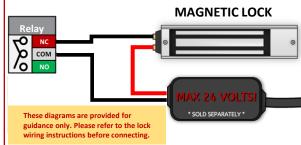


**Note:** The supplied enclosure is fully sealed. You will need to drill a hole in the wall of the enclosure then secure each half of the supplied cable gland into place to ensure the waterproof seal in intact. (ensure you do not drill the hole larger than the gland supplied)

## ALTERNATIVE WIRING EXAMPLE

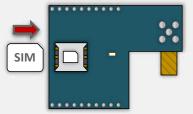


### **ALTERNATIVE WIRING EXAMPLE**



## **SIM ORIENTATION**

<u>ALWAYS</u> ensure the system is switched <u>OFF</u> when adding or removing your SIM card and ensure the orientation is correct.



### **CONNECTION TO NETWORK**





Quick Flashing = Standby | Constant ON/OFF = Searching

### **CHANGE APN (for VolTE / 4G services)**

The correct APN must be set for correct operation.

Check with your network provider for the correct APN for 4G data. Once you have confirmed the APN enter it in place of 'APNinfo' in an SMS to the intercom.

## via SMS

Ensure the PCB is powered on and connected to the network with a GREEN flashing LED.

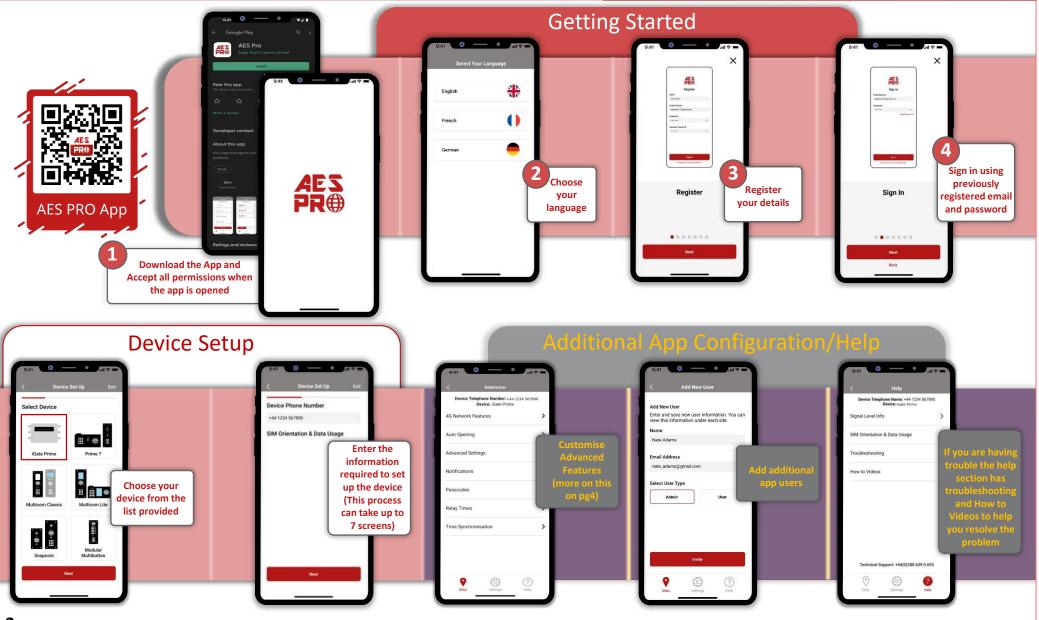
Then send the below text as an SMS to the intercom Sim number. A power reboot is required after the 'OK' reply message is received back.

### 9999#97APNinfo#





\* ALWAYS TEST THE UNIT ON SITE BEFORE INSTALLATION TO AVOID RE-STOCKING FEE



\* ALWAYS TEST THE UNIT ON SITE BEFORE INSTALLATION TO AVOID RE-STOCKING FEE

**Advanced Programming Setup** 



See our YouTube Channel for full app walkthrough

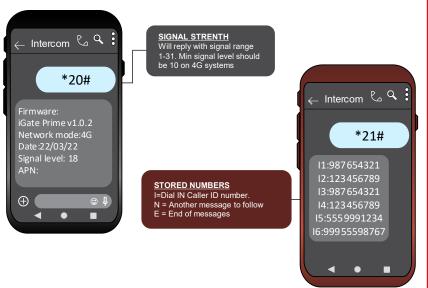


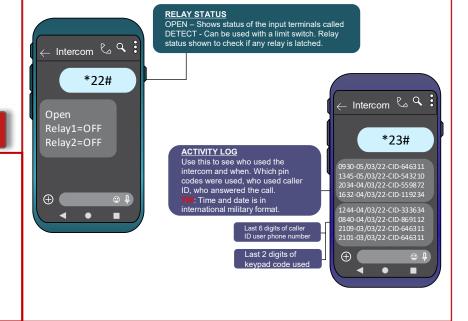


or search "AES Global"

Note: You need to send the SMS message created by the app to the intercom SIM number and receive the 'OK' reply for correct programming.

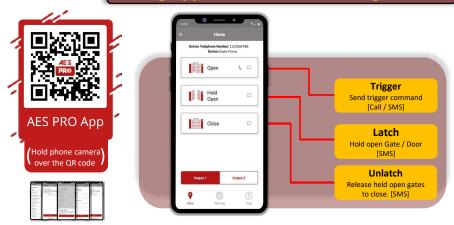






\* ALWAYS TEST THE UNIT ON SITE BEFORE INSTALLATION TO AVOID RE-STOCKING FFF

## **Using App for End User to Manage Gates**



#### Basic SMS Strings to Manage Gates

OPERATION	SMS STRING	
OPERATE RELAYS Trigger, Latch or Unlatch relays by SMS X = Relay Function	1234#X#	
1 = Trigger relay 1  4 = Trigger relay 2 2 = Latch relay 1  5 = Latch relay 2 3 = Unlatch relay 1  6 = Unlatch relay 2		
CHECK STATUS (min signal level required for full operation is 10)	*20#	
CHECK STORED NUMBERS  I = Dial in number. N = Another message. E = End of messages.	*21#	
CHECK RELAY STATUS	*22#	
EVENTS LOG (Check last 20 events, most recent first) CID = caller ID used	*23#	
ADD CALLER ID NUMBER (max 250) (14 digits maximum)	9999#72number#	
CHANGE RELAY TIME Time = 1-9999 seconds	9999#50time#	
FACTORY RESET (DEFAULT EVERYTHING)	9999#999#	

Default User Code: 1234 Default Installer Code: 9999



iGate Prime 4G

#### SWITCH MAINTENANCE

Bug ingress is a common issue in unit failures. Ensure that all components are sealed accordingly and check occasionally. (Do not open the panel in the rain / snow unless correctly equipped to keep the internals dry. Ensure the unit is securely closed after maintenance)

#### SIM MAINTENANCE

If using a pre-paid casual SIM card it will need topped up occasionally. It is recommended to advise the home owner / end user to register the SIM card on the provider's web site if available. Most major networks allow registration of card payment details for an auto top up feature, which means they will automatically top up your intercom when the balance runs low or in some cases, they offer a low balance reminder to be sent if they do not wish the auto top up feature.

#### **ENVIRONMENTAL INFORMATION**

The equipment that you bought has required the extraction and use of natural resources for its production. It may contain hazardous substances for the environment. In order to avoid the dissemination of those substances in our environment and to diminish the pressure on the natural resources, we encourage you to use the appropriate take-back systems. Those systems will reuse or recycle most of the materials of your end-of-life equipment.

The crossed-bin symbol marked in your device invites you to use those systems.



If you need more information on the collection, reuse and recycling systems, please contact your local or regional waste administration. You can also contact AES Global Ltd for more information on the environmental performances of our products.

#### WARRANTY

Please note, by installing this product, you are accepting the following warranty terms:

- 1. The manufacturer's warranty is a "return to base" 2 year warranty from date of manufacture. This means that any suspected defective components or items are returned to the manufacturer's agent for investigation and diagnosis and returned at the cost of the
- 2. The warranty does not cover, nor is the manufacturer or agent responsible for any of the following whatsoever: Storm damage, lightning or surge damage, flooding, accidental damage, vandalism or deliberate damage, un-explained corrosion or unusually harsh environments, failure of telephone networks, future un-interoperability between the product and network providers which cause malfunction due to changes implemented by the phone providers after manufacture of the product, or that which is outside of control of the manufacturer (e.g. 2G, 3G switch off, removal or inability to obtain VOLTE service), and damage due to inaccurate installation.
- 3. The manufacturer in no way accepts liability for any of the following incurred due to a product defect: Cost of attending site, inconveniences, labor rates, time lost, loss to or damage to property, security breaches, late payment clauses or breaches of any contracts between the installer and the client.
- 4. This is a professional install product only. The product is a component of an overall system. Therefore, it is the responsibility of the installer to certify the safety and compliance of the overall finished system. As soon as this product is fixed to another item, or connected to another third-party device, then the product has been modified, and compliance with local regulations in the country of install is strictly the responsibility of the installer.
- 5. Re-stocking fees may apply to items returned that are found to be non-defective. Complete units will also attract a re-stocking fee if returned for credit, regardless if a defect is discovered or not. Re-stocking fees may vary depending on the condition of the item being returned, and whether it can be determined as in brand new condition. The warranty terms do not entitle customers to an automatic full refund. For more details on returns procedures and re-stocking fees, contact the agent.
- 6. Items with physical signs of surge damage are not covered by warranty, Items with visible signs of surge damage will only be covered by warranty if photographic evidence is provided from site, showing surge protection has been installed. Full warranty terms and conditions available upon request to AES Technical Department

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\* ALWAYS TEST THE UNIT ON SITE BEFORE INSTALLATION TO AVOID RE-STOCKING FEE

#### **TROUBLESHOOTING**

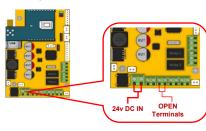
Symptoms caused	Problem/error	Solution
No LEDs on.	The unit will not power up.	Check power supply voltage at intercom is 23.4v DC or more. Cable length from PSU to intercom should be less than 8 meters and in 1.0mm2 cable for this distance. See cable guide on page 1 of this manual. Check the fuse.
No green CPU light	The unit powers up but is not showing network reception or will not respond to SMS.	This means the unit is not able to detect the network for some reason.  -Power off the unit, remove the SIM and check it in a mobile phone to verify it can make a call and has calling credit if it is a Pay As You Go SIM.  -Disable any PIN code request if active on the SIM card.  -Check the SIM is a standard voice capable SIM. If you are unsure, contact your SIM card provider to verify.  -Check the reception is medium or good. Poor reception is not sufficient.  -Change to an external antenna.  External Antenna Details  -Ensure the cable does not have too many sharp bends.  -Check the height of the antenna and make sure it is not inside a metal enclosure.  -Check correct power cable size for cable length from PSU. Refer to manual for guidelines
The caller ID function does not work.	Incorrect programming or poor signal	If your number is a private or number withheld, then it will not workEnsure the number is programmed as you would normally dial it from another phone Ensure you have adequate GSM signal at the intercom by sending *20# as a text.



www.ness.com.au

National Customer Service Centre Ph: 1300 551 991 techsupport@ness.com.au

#### Reset / Default Unit



- 1) Power off the unit. (approx 60 secs)
- 2) Make a link across the terminals marked OPEN.
- 3) Switch on power
- Wait 20 seconds.
- 5) The unit will then clear memory and be defaulted

Note: Performing this process will remove all current programming including saved users & access codes.

6) Remove the link and wait around 20

Manufacturer: Advanced Electronic Solutions Global Ltd. Address: Unit 4C, Kilcronagh Business Park, Cookstown, Co Tyrone, BT809HJ, UK

Complies with the following essential requirements for 2014/53/EU:

ETSI draft EN 301 489-1 V2.1.1 (2017-02) (Electromagnetic compatibility)

ETSI draft EN 301 489-52 (2016-11) (Electromagnetic compatibility, specific to cellular)(2G bands 900/1800, 3G band 1,8 LTE bands 1, 3, 7, 8, 20).

Test report number LCS181101028AEA

ETSI EN 301 511 V12.5.1 (2017-03) (3.2 of directive 2014/53/EU)

ETSI TS 151 010-1 V12.8.0 (2016-05) (Digital cellular telecoms compliance)

Test report number LCS181101028AEB

ETSI EN 301 908-1 V11.1.1 (2016-07) (IMT Cellular networks, 3.2 of directive 2014/53/EU) ETSI EN 301 908-2 V11.1.2 (2016-07) (CDMA spread / UTRA FDD)

Test report number LCS181101028AEC

ETSI EN 301 908-13 V11.1.2 (2017-07) (E-UTRA and UE standards)

Test report number LCS181101028AED

EN 62311 :2008 (Electromagnetic safety and human exposure)

Test report number: LCS181101028AEE

EN 60950-1, (A1, A11, A12, A2)

EN 62311

IEC 60950 (IT equipment safety)

Test report number: LCS181101029AS

The notified body is: Micom Labs (CAB number 2280).

This declaration is issued under the sole responsibility of the manufacturer.

Paul Creighton, Managing Director. Date: 4th Dec 2018

This product is not a complete product until fully installed. It is therefore considered a component part of an overall system. The installer is responsible to check that the end installation complies with local regulatory requirements. This equipment forms part of a "fixed installation".